

Kuan-Yuan Chen 陳冠元

A Christian and a keen photographer who likes solving everyday problems with hardware, AI and code, and who hopes to become a radiation oncologist.

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[🔗 GitHub / galenky](https://github.com/galenky)

Education

Sep 2018 – Jun 2024 · School of Medicine, National Yang Ming Chiao Tung University · Taipei, Taiwan

Doctor of Medicine (M.D.)

• GPA 4.10 / 4.3

• Class rank 62 / 151

Professional Experience

Feb 2026 – Present · Taipei Veterans General Hospital · Expected completion Jan 2027

PGY-2 Resident, Post-Graduate Year (PGY) General Medicine Training — general track

Oct 2024 – Apr 2025 · Division of Infectious Diseases, Taoyuan General Hospital, Ministry of Health and Welfare

Substitute Services Draftee (medical) — Department of Medical Affairs, MOHW

Aug 2024 – Jan 2026 · Taipei Veterans General Hospital · Includes 6 months of unpaid leave for compulsory national service

PGY-1 Resident, Post-Graduate Year (PGY) General Medicine Training

Clinical Electives & Rotations

Aug 2026 · Taipei Veterans General Hospital

PGY Rotation, Department of Heavy Particles & Radiation Oncology

Aug 2025 · Taipei Veterans General Hospital

PGY Rotation, Department of Heavy Particles & Radiation Oncology

Mar 2024 · Taipei Veterans General Hospital

Internship (UGY) Rotation, Department of Heavy Particles & Radiation Oncology

Nov 2023 · Hokkaido University Hospital · Sapporo, Japan

Clinical Elective, Department of Therapeutic Radiology & Proton Beam Therapy Center

Four weeks in radiation oncology: hands-on 3D-CRT contouring and treatment planning, and an introduction to SBRT with real-time tumor-tracking radiotherapy (RTRT).

Oct 2023 · St Bartholomew's Hospital, Barts Health NHS Trust · London, UK

Elective Placement, Department of Oncology

Four-week elective covering medical oncology and clinical (radiation) oncology.

Honors & Awards

May 2026 · Taipei Veterans General Hospital — voted by the hospital's medical interns

Best Teaching Resident, Academic Year 2025–26

Nov 2025 · Department of Chest Medicine, Taipei Veterans General Hospital

First Place (PGY–R1 division), Chest X-ray Interpretation Contest

Dec 2023

First Place, “AI in Teaching” — CTCI Foundation AI Innovation Competition

Project: a generative-model platform for teaching medical image interpretation, built with students from NTHU Computer Science and NYCU Electrical Engineering. I proposed the topic, advised on UI/UX, and as clinical reader judged the realism and clinical plausibility of the diffusion model's chest radiographs.

Aug 2023

Best Technology Award — OpenHCI 2023, the 13th Human-Computer Interaction Workshop

Project: SOUNDFIT — a new way of listening music (team project). I built the Arduino hardware and the IoT link mapping smartwatch sensor data to Spotify API parameters. Also shown as a demo at TAICHI 2023, the 9th Annual Conference of the Taiwan Association of Computer-Human Interaction.

Apr 2022

Second Place — One Health Short Film Competition, Taiwan One Health University Network (TAOHUN)

Film: Rabies — A bitesize story (team entry).

Apr 2022

Basic Clinical Skills: Honorable Mention, Medical Record Writing Competition; Excellence Award, Group OSCE

Jan 2020

First Place, Scientific Poster — East Asian Medical Students' Conference (EAMSC) 2020, New Delhi

Poster: Neutrophil to Lymphocyte Ratio and Platelet to Lymphocyte Ratio as biomarkers for Acute Ischemic Stroke Prognosis.

Publications & Presentations

- [1] Nov 2025
- KY Chen, LY Lu, SW Yeh.
- Template-Grounded Generative AI Assistant Streamlines Nurse-Practitioner Clinical Documentation
- 2025 Asian and Pacific Congress for Nurse Practitioners (APCNP) Conference
- [2] Aug 2025
- Daniel Kong, QX Huang, HM Sun, WH Yuan, KY Chen and WH Juang.
- Virtual Healing: Counterfactual X-Ray Images Using Classifier-Free Guided Diffusion Models
- 2025 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)
- Contribution: Clinical validation of model outputs; advice on data preprocessing
- [3] Jan 2020
- SY Fang*, KY Chen*, LH Lee, CK How. (* co-first authors)
- Neutrophil to Lymphocyte Ratio and Platelet to Lymphocyte Ratio as biomarkers for Acute Ischemic Stroke Prognosis
- 2020 East Asian Medical Students' Conference (EAMSC)

Research Experience

Apr 2023 – Sep 2023 · Department of Internal Medicine, NYCU School of Medicine, at Taipei Veterans General Hospital

Research Assistant

Evaluated a smart medical-record system as a tool for innovative medical education.

Apr 2022 – Dec 2022 · Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital

Research Assistant

AI-assisted interpretation in prostate cancer pathology.

Leadership & Activities

Feb 2023 – Aug 2023 · Liberal Arts College, National Yang Ming Chiao Tung University

Member, “Medical Image Interpretation and Model-Training Platform” learning community — Active Learning program

Nov 2022 – Aug 2023 · National Yang Ming Chiao Tung University

Member, AI & Medical Imaging Group — Google Developer Student Clubs

Sep 2022 – Aug 2023 · National Yang Ming Chiao Tung University

Class IT & Academic Officer; Lead, Licensing-Exam Worked-Solutions Platform

Editor-in-chief of the Yang-Ming worked solutions for the Stage One medical licensing exam (2022, second sitting).

Sep 2020 – Aug 2021 · National Yang Ming Chiao Tung University

President, Yang Ming Faith Hope Love Club (Christian student fellowship)

Built the club's cloud archive, standardized its administration and led the digitization of its paper records; the club was graded A in the university's annual student club evaluation.

Mar 2020 – Aug 2020 · National Yang-Ming University

Speaker, Student Congress

Licenses & Certifications

Jul 2029 · Valid until

Advanced Cardiac Life Support (ACLS)

Nov 2027 · Valid until

Emergency Medical Technician-1 (EMT-1)

Jul 2024 · Passed the 2024 Second Senior Professional and Technical Examinations for Medical Doctors

Physician Certificate, Republic of China (Taiwan)

Feb 2023 · English proficiency

IELTS Academic 8.0

Side Projects

Aug 2026

Project Airlock — clinical note de-identification

A local LLM strips personal identifiers from a clinical note before it goes to a cloud model, and restores them in the reply.

May 2026

Digital Library of the Yang Ming Faith Hope Love Fellowship

Digitized the fellowship's paper records from the 1970s–1990s, using AI for OCR and metadata structuring, and built a static archive site the community can search, browse and edit online.

Apr 2026

Interactive Arterial / Venous Blood Gas Interpreter

A web app that runs the acid–base analysis of an arterial or venous blood gas and suggests differential diagnoses, with an anonymous community case library for sharing and learning from real clinical data.

Jan 2026 · Taiwan invention patent pending.

MedEdBot — AI patient-education and medical translation

A LINE chatbot combining Gemini AI with multilingual speech, built to break down language barriers at the bedside: real-time clinician–patient translation and structured patient-education material.

Mar 2024 · Kuan-Yuan Chen, and Tzu-Chi Huang. (2024). [Dataset]. Kaggle.

Taiwan Highway Vehicle Detector Dataset Feb 2024

With a classmate minoring in transportation management, converted the Freeway Bureau (MOTC) per-minute XML.gz feeds from every freeway vehicle detector in Taiwan into continuous time-series CSV. Our analysis of one interchange indirectly led to improved lane markings at the southbound Wujia System Interchange exit; the dataset is public on Kaggle.

May 2023

LazySwitch

Brought IoT control to a dormitory light switch with an Arduino and an ESP8266.

Jul 2021 – Present

Home Data Backup System

Built and maintain two 10 TB NAS units as the family's backup system.



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